

LS ANSWER 122 OF 575 CA COPYRIGHT 2004 ACS on STN  
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 TI Manufacture of light-weight hollow wallboard with high strength and low  
 production cost  
 IN Wan, Yunzhong  
 PA Loading and Unloading Service Co., Neijiang Vehicle Section, Peop. Rep.  
 China  
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 4 pp.  
 CODEN: CNXXEV  
 DT Patent  
 LA Chinese  
 IC ICM C04B020-00  
 CC 58-4 (Cement, Concrete, and Related Building Materials)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1178202	A	19980408	CN 1997-107756	19971103
PRAI	CN 1997-107756		19971103		

AB The wallboard is prepd. from **cement** 45-55, expanded material  
 10-15, **fly ash** 30-35, **gypsum** 4-7,  
**water** 40-55 wt.%, and glass fiber. The manuf. process comprises:  
 mixing **cement** with **gypsum** and **fly**  
**ash**, adding expanded material under stirring, mixing with  
**water** to obtain a micro-foamed **slurry** (450-560 kg/m<sup>3</sup>),  
 pouring the **slurry** into a mold, laying a layer of glass fiber,  
 putting a mold core into the mold, adding **slurry** to 2/3 designed  
 thickness, laying another layer of glass fiber, adding **slurry** to  
 designed thickness, settling for 1-1.5 h, removing the mold core,  
 de-molding after 4 h, and curing. Preferably, the expanded material is  
 expanded vermiculite or perlite;.  
 ST light wt hollow wallboard strength prodn cost; **cement** light wt  
 hollow wallboard; expanded vermiculite light wt hollow wallboard; expanded  
 perlite light wt hollow wallboard; **fly ash**  
**gypsum** glass fiber wallboard; **gypsum fly**  
**ash** glass fiber wallboard; glass fiber **fly ash**  
**gypsum** wallboard  
 IT Perlite  
 RL: PEP (Physical, engineering or chemical process); TEM (Technica